



PHILIP MORRIS PRODUCTS, INC.

COSTA RICA TEST #190

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DATE:

November 13, 1992

COSTA RICA TEST #190

Seven cigarette brands of August production were received from Costa Rica on September 9, 1992.

Higher total reducing sugars were observed for the current Marlboro Lights Long Size Menthol cigarettes, returning to the level reported in Test #181.

The current Marlboro Lights Long Size cigarettes were not different from the previous average in any of the characteristics tested.

MANUFACTURER	<u>PHILIP MORRIS</u>			
	<u>Marlboro</u> <u>Lights Long Size</u> <u>Menthol 20's (Box)</u>		<u>Marlboro Lights</u> <u>Long Size 20's (Box)</u>	
	<u>Current</u>	<u>Previous</u>	<u>Current</u>	<u>Previous</u>
<u>Smoke</u>				
Butt Length, mm	30.0	30.0	30.0	30.0
FTC Tar, mg/cig.t.	12.2	12.8	12.5	12.4
Nicotine, mg/cig.t.	1.02	1.09	1.06	1.01
Puffs/Cigt.	7.8	8.0	8.1	8.0
<u>Cigarette</u>				
Total RTD, mm of H ₂ O	100	105	104	108
Length, mm	79.3	79.1	79.1	79.1
Circumference,mm	24.9	24.8	24.9	24.9
<u>Paper</u>				
Permeability, ml/cm ² x min.	44	43	42	45
<u>Filter</u>				
RTD, mm of H ₂ O	69	68	71	70
Length, mm	19.8	20.0	20.0	19.9
Tipping Paper Length,mm	27.0	27.0	27.0	27.0
Tipping Paper Color	White	White	White	White
Ventilation, %	21	17	17	19
<u>Filler</u>				
Total Alkaloids, % (DWB)	1.90	1.92	1.83	1.96
Total Red. Sugars, % (DWB)	10.8	8.5	10.3	8.8
Wt. of Tob., g (12.5% OV)	0.724	0.704	0.716	0.705
Rod Length, mm	59.5	59.2	59.2	59.2
Rod Density, g/cc	0.246	0.243	0.245	0.242
Oven Volatiles, % (Equil.)	12.8	13.3	13.5	13.4
<u>Menthол, mg/cigt.</u>				
Smoke	0.34	0.38	-	-
Filler	1.7	1.7	-	-
Filter	0.8	0.9	-	-

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COSTA RICA TEST #190

The current Marlboro Long Size and Derby Long Size Menthol cigarettes were not different from their respective previous averages in any of the characteristics tested.

MANUFACTURER	PHILIP MORRIS					
	Marlboro Long Size 20's (Box)			Derby Long Size Menthol 20's (Box)		
	Current	Previous	U.S. ¹	Current	Previous	
<u>Smoke</u>						
Butt Length, mm	27.0	27.0	26.0	27.0	27.0	
FTC Tar, mg/cigt.	15.2	16.5	15.9	15.8	16.4 ²	
Nicotine, mg/cigt.	1.19	1.26	1.16	1.14	1.15	
Puffs/Cigt.	7.8	8.1	8.7	7.6	7.4	
<u>Cigarette</u>						
Total RTD, mm of H ₂ O	111	121	109	109	114	
Length, mm	79.1	79.2	79.4	79.2	79.2	
Circumference,mm	24.8	24.9	25.0	24.8	24.8	
<u>Paper</u>						
Permeability, mL/cm ² x min.	29	34	29	46	46	
<u>Filter</u>						
RTD, mm of H ₂ O	68	66	68	53	53	
Length, mm	19.7	20.0	18.8	19.9	19.7	
Tipping Paper Length,mm	24.0	24.0	23.0	24.0	24.0	
Tipping Paper Color	Cork	Cork	Cork	Cork	Cork	
Ventilation, %	None	None	14	None	None	
<u>Filler</u>						
Total Alkaloids, % (DWB)	1.95	1.93	1.91	2.00	1.87	
Total Red. Sugars, % (DWB)	10.7	8.9	6.4	7.4	6.6	
Wt. of Tob., g (12.5% OV)	0.696	0.707	0.706	0.697	0.693	
Rod Length, mm	59.4	59.2	60.6	59.3	59.5	
Rod Density, g/cc	0.240	0.243	0.235	0.241	0.237	
Oven Volatiles, % (Equil.)	13.3	13.4	13.5	12.8	12.9	
<u>Menthol, mg/cigt.</u>						
Smoke	-	-	-	0.38	0.28 ²	
Filler	-	-	-	1.3	0.9 ²	
Filter	-	-	-	0.5	0.6	

¹Data From C.I. No. 9/92.

²Results from Test #189, dated 9/18/92, where a change was noted.

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COSTA RICA TEST #190

The current Derby Long Size and Derby King Size cigarettes were not different from their respective previous averages in any of the characteristics tested.

MANUFACTURER	PHILIP MORRIS			
	Derby Long Size 20's (Box)		Derby King Size 20's (SP)	
	Current	Previous	Current	Previous
<u>Smoke</u>				
Butt Length, mm	27.0	27.0	27.0	27.0
FTC Tar, mg/cigt.	16.2	15.7	17.1	17.3
Nicotine, mg/cigt.	1.36	1.31	1.48	1.43
Puffs/Cigt.	7.6	7.5	8.5	8.3
<u>Cigarette</u>				
Total RTD, mm of H ₂ O	105	106	109	110
Length, mm	79.1	79.1	83.7	84.2
Circumference,mm	24.8	24.8	24.9	24.9
<u>Paper</u>				
Permeability, ml/cm ² x min.	32	34	33	32
<u>Filter</u>				
RTD, mm of H ₂ O	54	54	55	54
Length, mm	20.0	19.9	19.9	19.7
Tipping Paper Length,mm	24.0	24.0	24.0	24.0
Tipping Paper Color	Cork	Cork	Cork	Cork
Ventilation, %	None	None	None	None
<u>Filler</u>				
Total Alkaloids, % (DWB)	1.99	1.94	2.04	1.95
Total Red. Sugars, % (DWB)	6.9	6.1	6.6	5.7
Wt. of Tob., g (12.5% OV)	0.682	0.694	0.767	0.761
Rod Length, mm	59.1	59.3	63.8	64.5
Rod Density, g/cc	0.235	0.238	0.244	0.240
Oven Volatiles, % (Equil.)	12.9	12.9	13.1	12.9

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COSTA RICA TEST #190

The current Delta King Size cigarettes were not different from the previous average in any of the characteristics tested.

MANUFACTURER

BRITISH AMERICAN TOBACCODelta King
Size 20's (SP)

	<u>Current</u>	<u>Previous</u>
<u>Smoke</u>		
Butt Length, mm	27.0	27.0
FTC Tar, mg/cigt.	17.4	18.2
Nicotine, mg/cigt.	1.51	1.64 ¹
Puffs/Cigt.	8.4	8.5
<u>Cigarette</u>		
Total RTD, mm of H ₂ O	109	109
Length, mm	83.9	84.1
Circumference,mm	24.8	24.8
<u>Paper</u>		
Permeability, ml/cm ² x min.	32	29
<u>Filter</u>		
RTD, mm of H ₂ O	57	53
Length, mm	19.9	19.7
Tipping Paper Length,mm	24.0	24.0
Tipping Paper Color	Cork	Cork
Ventilation, %	None	None
<u>Filler</u>		
Total Alkaloids, % (DWB)	2.07	2.06
Total Red. Sugars, % (DWB)	10.1	9.5
Wt. of Tob., g (12.5% OV)	0.766	0.767
Rod Length, mm	64.0	64.4
Rod Density, g/cc	0.246	0.243
Oven Volatiles, % (Equil.)	13.0	13.3

¹Results from Test #189, dated 9/18/92, where a change was noted.

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